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File: DWPI

Oct 25, 1982

DERWENT-ACC-NO: 1983-751513

DERWENT-WEEK: 198335

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TITLE: Prodn of tritium or carbon-14 labelled protein - by treating isotope-contg. aliphatic aminoacid with formaldehyde and conjugating it to protein, used in biology and medicine

INVENTOR: DOMBROVSKI, V I ; ROTT, G M ; SEMIN, Y U A

PATENT-ASSIGNEE:

ASSIGNEE

CODE

A MED RADIOLOGY RES

AMRAR

PRIORITY-DATA: 1980SU-2894059 (March 10, 1980)

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PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC



SU 968036 A

October 25, 1982

006

INT-CL (IPC): A61K 43/00; C07B 23/00; C07G 7/00

ABSTRACTED-PUB-NO: SU 968036A

BASIC-ABSTRACT:

Radioactive isotope labelled proteins are useful in radioimmunoassay for medical diagnoses of various pathological states and in biological research. Labelling of proteins to high specific radioactivities without losing their antigenic specificities, includes conjugation of the required protein to radioactive isotope-contg. acylating agent by means of formaldehyde. Pref. formaldehyde is reacted with aliphatic aminoacid labelled with tritium or carbon-14 isotope to give deriv. of formula (I): $R-CH(N=CH_2)-COOH$ (I) (where R is tritium or H-3 or C-14 isotopes contg. alkyl gp.). The protein is then treated in aq. phosphate or borate buffer soln. at pH 5.5-10.0 and 20-48 deg. C with H-3 or C-14 isotopes contg. aliphatic aminoacid (I) using formaldehyde: aminoacid: protein molar ratio of (0.045-0.060): (1.9 x 10 power minus 5- 4 x 10 power minus 3): (1 x 10 power minus 6 - 1 x 10 power minus 5). Pref. isotope labelled aminoacids are (H-3)-lysine, (H-3)-glycine and (C-14)-leucine. Bul. 39/23.10.82.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: PRODUCE TRITIUM CARBON LABEL PROTEIN TREAT ISOTOPE CONTAIN ALIPHATIC AMINOACID
FORMALDEHYDE CONJUGATE PROTEIN BIOLOGICAL MEDICINE

DERWENT-CLASS: B04 K08

CPI-CODES: B04-B04A; B04-B04C; B05-A04; B12-K04; K09-B; K09-E;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

C101 C106 C811 H1 H100 H101 H181 H182 J0 J011
J1 J171 M280 M311 M315 M321 M332 M333 M340 M342
M343 M349 M381 M391 M423 M510 M520 M530 M540 M720
M903 N153 N209 N234 N241 N243 N261 N331 N334 N361
N421 N422 N430 N512 N513 P831 V752

JNLINKED-DERWENT-REGISTRY-NUMBERS: 0001S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1983-083642

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